



K 10 1409

AUG 0 2 2010

510(k) Summary For SYSTEM 1E Liquid Chemical Sterilant Processing System

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Submission Date:

May 18, 2010

STERIS Corporation = 5960 Heisley Road = Mentor, OH 44060-1834 USA = 440-354-2600

STERIS SPECIAL 510(k) PREMARKET NOTIFICATION Modification of K090036 SYSTEM 1E Liquid Chemical Sterilant Processing System

1. Device Name

Trade Name: SYSTEM 1E Liquid Chemical Sterilant

Processing System

Common/usual Name: Liquid Chemical Sterilizer

Classification Name: Sterilant, Medical devices, Liquid Chemical

Sterilants/Disinfectants

Classification Number: 21 CFR 880.6885

Product Code: MED

2. Predicate Device

SYSTEM 1E Liquid Chemical Sterilant Processing System (K090036)

3. <u>Description of Device</u>

The SYSTEM 1E Liquid Chemical Sterilant Processing System is a liquid chemical sterilization system, utilizing peracetic acid to process totally immersible, heat sensitive, flexible and rigid endoscopes and their accessories, and microsurgical instruments. The system consists of the SYSTEM 1E Processor and the S40 Sterilant Concentrate, interchangeable processing trays/containers and Quick Connects.

The SYSTEM 1E Processor is an automated, self-contained device which creates and maintains the conditions necessary for liquid chemical sterilization in 6 minutes. Following the processing, the liquid chemically sterilized articles are rinsed with extensively treated water produced by passing EPA potable tap water through pre-filters, an ultraviolet light treatment subsystem, and then through two 0.1 micron filter membranes. The processor, which is computer controlled and continually monitored, provides printed documentation of each cycle.

S40 Sterilant Concentrate is a single use chemical sterilant concentrate developed exclusively for use in the SYSTEM 1E Processor. The active ingredient in S40, peracetic acid, is combined with inert ingredients to form a use dilution which inhibits corrosion of metals, polymers and other materials.

The interchangeable processing trays/containers are made to accommodate a variety of instrument types, models and procedure specific sets. Each container is designed to maintain instruments in appropriate position while specific Quick Connects ensure thorough circulation of the sterilant solution and rinses.

4. Intended Use

The SYSTEM 1E Liquid Chemical Sterilant Processing System is intended for liquid chemical sterilization of cleaned, immersible, and reusable critical and semi-critical heat-sensitive medical devices in healthcare facilities.

The SYSTEM 1E Processor dilutes the S40 Sterilant Concentrate to its use dilution (>1820 mg/L peracetic acid), liquid chemically sterilizes the load during a controlled 6-minute exposure at 46 to 55°C, and rinses the load with extensively treated* potable water. The processed load should be used immediately.

The SYSTEM 1E Processor uses only S40 Sterilant Concentrate to liquid chemically sterilize medical devices.

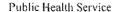
- * The extensive treatment of EPA potable water consists of:
 - 1. Pre-filtration through two pre-filters:
 - Pre-filter 1 is a gross depth filter that removes approximately 5 micron or larger particles/contaminants.
 - Pre-filter 2 is a surface filter that removes particles/contaminants > 0.1 micron.
 - 2. UV Irradiation:
 - During transit through the UV water treatment chamber, a UV dose sufficient to achieve $a \ge 6$ -log reduction of MS2 virus is delivered to the water.
 - 3. 0.1 micron filtration:
 - The water prepared by pre-filtration and UV irradiation is filtered through redundant, 0.1-micron (absolute rated) membranes to remove bacteria, fungi and protozoa > 0.1 micron.

5. <u>Description of Safety and Substantial Equivalence</u>

The SYSTEM 1E Liquid Chemical Sterilant Processing System is the same as the predicate K090036 except for the qualification of an alternative ultraviolet light (UV) water treatment subsystem manufactured by a different supplier. The differences between the proposed and predicate device are limited to the described UV subsystems that may be used in manufacturing or for field replacement.

The modified SYSTEM 1E Liquid Chemical Sterilant Processing System uses an ultraviolet water treatment subsystem of a design comparable to that cleared. The two systems are equivalent in their ability to provide a UV dose sufficient to achieve \geq 6-log reduction of MS2 virus in potable water during transit through the UV water treatment chamber. The proposed change raises no new concerns of safety and effectiveness when compared to the predicate device.







Food and Drug Administration 10903 New Hampshire Avenue Document Control Room –WO66-G609 Silver Spring, MD 20993-0002

Mr. Robert Sullivan Senior Director, FDA Regulatory Affairs STERIS Corporation 5960 Heisley Road Mentor, Ohio 44060

AUG 0 2 2010

Re: K101409

Trade/Device Name: SYSTEM 1E Liquid Chemical Sterilant Processing System

Regulation Number: 21 CFR 880.6885

Regulation Name: Liquid Chemical Sterilants/ High Level Disinfectants

Regulatory Class: II Product Code: MED Dated: July 2, 2010 Received: July 6, 2010

Dear Mr. Sullivan:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to

http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Anthony D. Watson, B.S., M.S., M.B.A.

Director

Division of Anesthesiology, General Hospital, Infection Control and Dental Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

STERIS SPECIAL 510(k) PREMARKET NOTIFICATION Modification of K090036 SYSTEM 1E Liquid Chemical Sterilant Processing System

	Indications for Use	AUG 0 2 2010
510(k) Number (if known):	. ·	K/114199
Device Name:	SYSTEM 1E Liquid Chemical	Sterilant Processing System
chemical sterilization of cleaned tensitive medical devices in hea The SYSTEM 1E Processor dil mg/L peracetic acid), liquid che exposure at 46 to 55°C, and ring	utes the S40 Sterilant Concentrate emically sterilizes the load during a ses the load with extensively treate	l and semi-critical heat- to its use dilution (>1820 a controlled 6-minute
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Prescription Use (Part 21 CFR 801 Subpart D	AND/OR Over-The-Cour (21 CFR 801 Section 2)	
(PLEASE DO NOT WRIT PAGE IF NEEDED)	E BELOW THIS LINE-CON	TINUE ON ANOTHER
Concurrence of CDRH, Offi	ce of Device Evaluation (ODE) (Division Sign-Control Infection Contro	
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